Index of Claims

| Application No. | Applicant(s) |  |
|-----------------|--------------|--|
| 09/528,644      | THIM ET AL.  |  |
| Examiner        | Art Unit     |  |
| David S Romeo   | 1647         |  |

| √  | Rejected |  |
|----|----------|--|
| 11 | Allowed  |  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| - | ı | Non-Elected  |  |
|---|---|--------------|--|
|   | Ī | Interference |  |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla      | aim      | [            |          |          |              | Dat  | е            |                | _        |         | ]   | CI   | aim      |              |                 |          |          | ate      |   |          |         |          |   | Cla      | aim        |          |                 |          |          | Date     | •        |          |        | _             |
|----------|----------|--------------|----------|----------|--------------|--|--------------|----------------|----------|---------|-----|--|----------|--------------|-----------------|----------|----------|----------|---|----------|---------|----------|---|----------|------------|----------|-----------------|----------|----------|----------|----------|----------|--------|---------------|
|          |          |              |          |          | Γ            |  |              |                | Γ        | Τ       | 7   |  | 1        | 2            |                 |          |          |          | Т   |          |         |          |   |          |            |          |                 |          |          |          |          |          |        |               |
| Final    | Original |              |          |          |              |  |              |                |          |         |     | Final  | Original | 1/18/05      |                 |          |          |          |   |          |         |          |   | Final    | Original   |          |                 |          |          |          |          |          |        | l             |
| i i      | Ö        |              |          |          | İ            |  |              |                |          |         |     | Œ  | 5        | =            |                 |          | ı        |          |   |          |         |          |   | ш        | Ö          |          |                 |          |          |          |          | - [      |        | i             |
|          |          |              | <u> </u> | L        | ╁            | ╀  | ┼            | ╄              | ╀        | +       | -   |  | 51       | -            | Н               |          | $\dashv$ | $\dashv$ | +   | +        |         | -        |   |          | 101        |          |                 | -        | Н        | -        | $\dashv$ | $\dashv$ | _      | _             |
| -        | 2        | <del> </del> | ┝        | _        | ╁╌           | ╫  | +            | ╁              | ╀        | ╁╴      | ┨░  | <del> </del>                                     | 52       | ├            | Н               |          | $\dashv$ | -+       | +   | +        | ╁       | -        |   |          | 102        |          | $\dashv$        |          | Н        |          |          | -        | _      | $\overline{}$ |
| -        | 3        | ┢            | $\vdash$ | H        | ╁            | ╁╌   | ╁╴           | ╁              | ╁        | +       | -   | <del> </del>                                     | 53       | ┢            | -               | -        | $\dashv$ | $\dashv$ | +   | +        | ╅       | $\dashv$ |   |          | 103        |          | $\dashv$        |          | Н        |          |          | $\dashv$ | _      | $\overline{}$ |
|          | 4        | ┢            | $\vdash$ | Н        | +-           | ╁╾   | ┢            | $\vdash$       | ╁        | ╅       | 1   |  | 54       | $\vdash$     | Н               |          | $\dashv$ | $\dashv$ | $\dashv$  | +        | $\top$  | 1        |   |          | 104        |          | $\Box$          |          |          |          |          | 寸        |        | _             |
|          | 5        | _            | $\vdash$ |          | 1            | ┼─   | †            | T              | t        | $\top$  | 1   | <b>-</b>   | 55       | $\vdash$     |                 |          |          | _        | 十   |          | $\top$  |          |   |          | 105        |          |                 |          |          |          |          | $\neg$   | -      | $\overline{}$ |
|          | 6        | _            |          | Г        | 1            | <del>                                     </del> | 1            | 1              | T        | T       |     |  | 56       | Г            |                 |          | $\neg$   | T        | ┪   | T        | ┪       |          |   |          | 106        |          |                 |          |          |          |          |          |        |               |
|          | 7        |              |          |          |              |  | Г            |                | Τ        |         |     |  | 57       |              |                 |          |          |          |   |          |         |          |   |          | 107        |          |                 |          |          |          |          |          |        |               |
|          | 8        |              |          |          |              | Ι  |              |                |          |         |     |  | 58       |              |                 |          |          |          |   |          |         |          |   |          | 108        |          |                 |          |          |          |          |          |        |               |
|          | 9        |              |          |          |              |  | L            |                | L        | $\perp$ |     |  | 59       |              |                 |          | _        | _        |   | _        | $\perp$ | _        |   |          | 109        |          | Ц               |          |          |          |          | _        |        | <u></u>       |
|          | 10       |              |          |          | ļ            | <u> </u>   | L_           |                | L        | ╽.      | _   |  | 60       | L            | Ш               |          |          | _        | _   | 4        |         | _        |   |          | 110        |          | Щ               |          |          |          |          | _        |        | <u> </u>      |
|          | 11       | <u> </u>     |          | _        | 1            | ↓_   | ┞            | ↓_             | $\perp$  | $\bot$  | -   | <u> </u>   | 61       | <b> </b>     | <b> </b>        |          | _        | _        | $\dashv$  | $\perp$  | $\perp$ | 4        |   |          | 111        | Щ        | L               |          | Ш        |          |          |          |        | <u> </u>      |
| <u> </u> | 12       | <u> </u>     | <u> </u> | ļ        | <del> </del> | <b>↓</b> _                                       | ⊢            | ╄              | 1        | +       | -   | <u> </u>   | 62       | $\vdash$     | Ш               |          |          |          | _   | +        | -       | -        |   |          | 112        | Ш        | $\vdash \vdash$ |          |          |          |          | -        |        |               |
|          | 13       | $\vdash$     | $\vdash$ | <u> </u> | 1            | 1  | ├-           | <del> </del> - | +-       | +       | -   | <u> </u>   | 63<br>64 |              | $\vdash$        | -        | -        | $\dashv$ |   | $\dashv$ | +       | -        |   |          | 113        | Н        | $\vdash$        | $\vdash$ | Н        |          |          |          |        | —             |
| $\vdash$ | 14<br>15 | -            | -        | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$     | +              | +        | +       | -   | <del> </del>                                     | 65       | $\vdash$     | $\vdash$        | _        |          | $\dashv$ | +   | +        | +       | -        |   |          | 114<br>115 | $\vdash$ | $\vdash \vdash$ | -1       |          | $\dashv$ | $\vdash$ | -        | _      |               |
| <u> </u> | 16       | -            |          |          | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$       | +        | +       | -   |  | 66       | 1            | Н               | ┥        | $\dashv$ | $\dashv$ | +   | +        | +       | -        |   |          | 116        | Н        | $\vdash \vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ | $\dashv$ |        | _             |
|          | 17       | -            | -        | -        | -            | -  | -            |                | +        | -       | -   |  | 67       | √ √          | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | +        | +       | -        |   | $\dashv$ | 117        | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\vdash$ |          | -        | $\dashv$ |        | _             |
| $\vdash$ | 18       | -            |          |          | ╁┈           | H  | H            | ╁              | ╁        | +       | -   |  | 68       | H            | Н               | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | ╅        | ╅       | -        |   |          | 118        |          | $\dashv$        |          | $\vdash$ |          | $\dashv$ | $\dashv$ |        | _             |
|          | 19       | $\vdash$     |          | _        | 1            | <u> </u>   | <u> </u>     | <u> </u>       | t        | +       | 1   |  | 69       | 一            | $\vdash$        | $\neg$   | ┪        | +        | $\dashv$  | ╅        | +       |          |   |          | 119        |          | $\neg$          |          |          | _        |          | 寸        |        |               |
|          | 20       |              |          |          | 1            | T  | <u> </u>     | †              | T        | T       | 1   | -  | 70       | l            | П               |          | $\dashv$ | $\neg$   | _   | $\top$   | 十       | 7        |   |          | 120        |          | $\neg$          |          |          |          |          | T        |        |               |
|          | 21       |              |          |          |              |  | T .          |                | T        | T       | 1   |  | 71       |              | П               | $\neg$   | ヿ        |          | 十   | $\dashv$ | _       |          | ı |          | 121        |          |                 |          |          |          |          |          |        | _             |
|          | 22       |              |          |          |              |  |              |                | T        |         |     |  | 72       |              | П               |          |          |          | 丁   | T        | T       |          |   |          | 122        |          |                 |          |          |          |          | コ        |        | _             |
|          | 23       |              |          |          |              |  |              |                |          |         |     |  | 73       |              |                 |          |          |          | $\Box$  |          |         |          |   |          | 123        |          |                 |          |          |          |          |          |        |               |
|          | 24       |              |          |          |              |  |              |                |          | 3 8 4   |     |  | 74       |              |                 |          |          |          |   |          |         | _        |   |          | 124        |          |                 |          |          |          |          | _        |        | <u></u>       |
|          | 25       | L            | _        | _        | _            | _  | <u> </u>     | $oxed{oxed}$   | L        | $\perp$ | _   | <u></u>  | 75       |              | Ш               | _        | $\dashv$ | _        | $\perp$   | $\perp$  | _       | _        |   |          | 125        |          |                 |          |          |          |          | _        |        | <u> </u>      |
| L        | 26       | L.           |          | _        | <u> </u>     | ┞  | <u> </u>     | <u> </u>       | ╀        | $\bot$  | -   | <u> </u>   | 76       | <u> </u>     | Ш               | _        | _        | _        | 4   | $\dashv$ | $\perp$ | _        | 1 |          | 126        |          | $\dashv$        |          |          |          |          | _        |        |               |
| <u> </u> | 27       | $\vdash$     | $\vdash$ |          | _            | ├  | ├-           | -              | ╀        | +-      | -   |  | 77       | ├            | Н               | $\dashv$ | $\dashv$ |          | -   | +        | +       | -        | ∦ |          | 127        | _        |                 |          |          |          |          | -        |        | —             |
| <u> </u> | 28<br>29 | <u> </u>     |          | _        | ┢            | -  | ├            | -              | ╁        | +-      | -   |  | 78<br>79 | ₩            | Н               | $\dashv$ | $\dashv$ | -        |   | -        | +-      | -        |   |          | 128<br>129 | $\dashv$ | $\dashv$        | -        | $\dashv$ |          |          | $\dashv$ |        | _             |
| <u></u>  | 30       | ⊢            | -        | _        | $\vdash$     | ├  | ├            | ╁              | ╁        | +-      | -   |  | 80       | ┢            | Н               | $\dashv$ | $\dashv$ |          | -+-   | +        | +-      | -        | ∦ |          | 130        | $\dashv$ | $\dashv$        | -        | -        | _        |          | $\dashv$ |        | _             |
| _        | 31       | $\vdash$     |          |          | ┢            | -  | ╁╌           | ╁              | ╁        | +-      | -   |  | 81       | ╁            | Н               | $\dashv$ | $\dashv$ | -        | +   | +        | +-      | -        | ł |          | 131        | $\dashv$ | $\dashv$        | $\dashv$ | $\vdash$ |          |          | $\dashv$ |        | _             |
|          | 32       | ┢            | -        | _        | ╁            | ├  | ╁─           | ╁              | ╁        | ╁       | -   |  | 82       | ┢            | Н               | $\dashv$ | $\dashv$ | +        | +   | $\dashv$ | +       | -        | H |          | 132        |          |                 | $\dashv$ |          | _        |          | 十        | _      | _             |
|          | 33       | ┢            |          | _        | _            | H  | t            | t              | T        | +       | ۱   | <del>                                     </del> | 83       | H            |                 | 一        | 寸        | 寸        | 7   | +        | +       | 7        | Ì |          | 133        |          | $\neg$          | $\neg$   |          | _        |          | 寸        | $\neg$ | _             |
| _        | 34       |              |          |          | Т            | T  | T            | T              | T        | $\top$  | 1   |  | 84       | Г            |                 | ヿ        | 寸        | 寸        | $\top$  | 7        | $\top$  |          | Ì |          | 134        |          | $\Box$          |          |          |          |          | 寸        |        | _             |
|          | 35       |              |          |          | L            |  |              |                | Ι        | Ι       |     |  | 85       |              |                 |          |          |          |   |          |         |          |   |          | 135        |          |                 |          |          |          |          |          |        |               |
|          | 36       |              |          |          |              |  |              |                |          | I       |     |  | 86       |              |                 | $\Box$   |          |          | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\Box$   | $\perp$ |          | 1 |          | 136        |          |                 |          |          |          |          | $\Box$   |        | _             |
|          | 37       |              |          |          |              |  | $\Box$       |                | Ĺ        | L       |     |  | 87       | L            |                 |          | $\Box$   |          | $\perp$   |          |         | _        |   |          | 137        |          | $\Box$          |          | Щ        | $\Box$   | _]       | _[       |        |               |
|          | 38       |              |          |          | <u> </u>     | <u> </u>   | <u> </u>     |                | L        | $\perp$ | - ∰ | <u> </u>   | 88       | <u>L</u>     | Ш               |          | [        |          | $\perp$   |          | $\perp$ | _        |   |          | 138        |          |                 |          | Щ        | Ц        |          | _        |        | <b>—</b>      |
|          | 39       | _            | Ш        |          |              | ـــ  | $\vdash$     | 1_             | ┡        | $\perp$ | -   | <u> </u>   | 89       |              | Ш               | _        | _        | _        | _   | $\perp$  | $\perp$ | _        |   |          | 139        |          |                 | $\Box$   | $\sqcup$ |          | _        | 4        | _      |               |
|          | 40       | <u> </u>     | <u> </u> | _        | <u> </u>     | <u> </u>   | $\vdash$     | ـــ            | ╀-       | +       | -   | <u> </u>   | 90       | <u> </u>     | Ш               |          |          |          | +   |          | +       | -        |   |          | 140        |          |                 | _        | -        | Щ        | $\Box$   | 4        | _      | _             |
|          | 41       | _            | Ш        |          | $\vdash$     | ├-   | -            | $\vdash$       | ╀        | +       | -   | <u> </u>   | 91       | <u> </u>     | Н               |          | $\dashv$ | $\dashv$ | +   | +        | -       | -        |   |          | 141        | $\vdash$ | $\dashv$        |          | $\vdash$ | -        |          |          |        | —             |
|          | 42<br>43 | <u> </u>     | $\vdash$ |          | -            | -  | ├-           | -              | ╀        | +       | -   | $\vdash$   | 92       | $\vdash$     | Н               | $\dashv$ | $\dashv$ |          | +   | $\dashv$ |         | -        |   |          | 142<br>143 |          | -               |          | $\vdash$ |          |          |          | -      |               |
|          | 44       | _            | $\vdash$ |          | ╁            |  | <del> </del> | $\vdash$       | $\vdash$ | +       | ┨   | <del> </del>                                     | 94       | -            | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | +   | +        | +       | -        |   |          | 144        |          |                 | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | -      | _             |
|          | 45       | $\vdash$     | $\vdash$ |          | ┼            | +-   | $\vdash$     | ╁              | $\vdash$ | +       | ┪   | <b> </b>   | 95       | <del> </del> | ╁╌┤             |          | -+       | $\dashv$ | +   | +        | +       | -        | ∦ |          | 145        |          |                 | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ |          | -      |               |
|          | 46       | H            | $\vdash$ | _        | $\vdash$     | ╁  | H            | H              | t        | +       | ┪   | -  | 96       | <del> </del> | $\vdash$        | ᅥ        |          | +        | +   | -        | 十       | 1        |   |          | 146        |          | $\vdash$        | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | _      | _             |
|          | 47       | _            | $\vdash$ | _        | $\vdash$     | $\vdash$   | Н            | t              | T        | +       | 1   |  | 97       | <b>—</b>     | $\vdash \vdash$ | $\dashv$ | -        | _        | $\top$  | +        | +       | 7        |   |          | 147        |          | $\Box$          | $\neg$   | $\vdash$ | $\dashv$ | $\dashv$ | _        |        | _             |
|          | 48       |              | -        | _        | $\vdash$     | T  | T            | Т              | 1        | 1-      | 1   |  | 98       | 1            | Н               | 寸        |          | _        | $\top$  | +        | $\top$  | 7        |   |          | 148        |          |                 | 一        | $\Box$   | ヿ        | $\dashv$ | 寸        |        | _             |
|          | 49       |              |          |          |              |  |              |                | Γ        | Ι       | ]   |  | 99       |              |                 |          |          |          |   |          |         |          |   |          | 149        |          |                 |          |          |          |          |          |        |               |
|          | 50       |              |          |          | Γ            |  | Γ            |                | Γ        | T       | 188 |  | 100      |              | П               | ٦        |          | T        | T   | Т        | T       | 7        | ऻ |          | 150        |          |                 |          |          |          |          |          |        |               |